

# Sea Technology Index, Volume 15, 1974

This is a three-part, instant-reference index of technical material and news appearing in Volume 15, 1974. Part 1, Monthly Contents; Part 2, Authors; Part 3, Subject Index. Numbers following title, author or subject are month and page numbers.

## PART 1 — MONTHLY CONTENTS

### JANUARY 1974

Filling The Ocean Engineering Gap (editorial)	7
Soundings	9
Offshore Engineering	13
Ocean Research	17
Marine Electronics	19
Ships And Structures	25
Congress Takes Initiative In Funding Coastal Zone Act	27
A National Ocean Policy Is Critical To Energy Crisis	27
Changing Events Open Way For New Ocean Programs	28
Realistic Energy Plans Call For More Offshore Drilling	29
U.S. Shipbuilding Continues At Record Pace-time Rate	31
Oil Pollution Attitudes Shift To Spill Prevention	33
Ocean Mining Stifled By Lack Of U.S. And U.N. Action	33
Feasible USW Surveillance Programs Await Priority	34
Optimum Fishing Depends On Management; Benefits From Sea Grant Programs Begin To Appear	37
U.S. Competitive In World Shipbuilding And Shipping	38
IDOE In Fourth Year Of World Ocean Research	39
Law-Of-The-Sea Conference Faces Monumental Tasks	39
Navy Currents	41
Marine Pollution	42
Capital Report	43
People	50
Product Development	51
Contracts	53

### FEBRUARY 1974

Invidious Comparisons (editorial)	7
Soundings	9
Offshore Engineering	10
Ocean Research	10
Marine Electronics	16
Hydrographic Surveys At Sea In Real-time	18
An Ocean Based Solar-To-Hydrogen Energy Conversion Concept	21
Ships And Structures	25
Marine Pollution	25
Navy Currents	27
Capital Report	28
International	32
Product Development	33
People	36
Contracts	37

### MARCH 1974

To All Of Mankind (editorial)	7
Soundings	9
Offshore Engineering	11
Ocean Research	12
Marine Electronics	17
Offshore Technology Conference, Houston	18
Applying Ocean Research To Environmental Monitoring	22
Federal Ocean Program Budget Request Up \$64 Million	25
The Deep Sea Drilling Project — A Hallmark In Ocean Research	31
Navy Currents	35
Capital Report	37
Ships And Structures	39
Marine Pollution	41
Company Notes	43
Letters	43
International	44
Product Development	45
People	48
Contracts	49

### APRIL 1974

Marine Instruments Need Upgrading (editorial)	7
Soundings	9
Offshore Engineering	10
Ships And Structures	11

Ocean Research	12
Marine Electronics	15
Marine Pollution	17
A Time For Decision — U.S. Radio Navigation Systems	18
A Compact Obstacle Avoidance Sonar	21
Capital Report	24
Navy Currents	24
Product Development	27
People	30
Contracts	31

### MAY 1974

A Plea For Balance (editorial)	7
Soundings	9
Offshore Engineering	10
Ships And Structures	13
Ocean Research	17
Marine Electronics	18
Demands For Commercial Diving Exceed Available Services	20
Thirty Years Of Telling People Where They Are	25
A Time For Decision — U.S. Radio Navigation Systems, Part II.	29
Marine Pollution	31
Capital Report	32
Navy Currents	33
Letters	34
Product Development	35
People	38
Contracts	39

### JUNE 1974

A Unique Production Line (editorial)	5
Soundings	7
Marine Electronics	8
Offshore Engineering	9
Ships And Structures	11
Marine Pollution	12
Ocean Research	12
Navy Convinced USS Monitor Has Been Found	15
Offshore Nuclear Power Plants	16
A New Impregnated Synthetic Fiber Cable	21
Navy Currents	24
Capital Report	25
Letters	26
Product Development	27
People	30
Contracts	31

### JULY 1974

Inventory And Audit: V (editorial)	7
Soundings	9
Offshore Engineering	10
Research	12
Electronics	14
International	18
The World's Largest Gantry Crane	23
The ADEOS Data Buoy	24
10th Annual MTS Conference	27
Making Ocean Cable At Simplex	30
Pollution	32
Navy Currents	35
Capital Report	36
Company Notes	38
Product Development	39
People	42
Contracts	43

### AUGUST 1974

Ocean Thermal Energy: A Challenge (editorial)	7
Soundings	9
Offshore Engineering	11
Ships And Structures	12
Ocean Research	12
Marine Electronics	15
Marine Pollution	15
Navy Currents	16
Power Amplifiers For Sonar Systems	18
Combining Optics And Electronics At Kolimogen	23
5th International IEEE Conference On Engineering In The Ocean Environment	25
Capital Report	26
Product Development	29
People	30
Contracts	31

### SEPTEMBER 1974

The Smithsonian's Gloomy Grotto (editorial)	7
Soundings	9
Ships And Structures	10
Offshore Engineering	13
Marine Electronics	14
Ocean Research	14
Submarine Tow Cable	19
Trident Sonar Shows Advantages Of Modular Standardization	23
Shipboard Automated Analyzers Speed The Fight Against Great Lakes Pollution	26
Gulf Offshore Project Waiting For Congressional Action	30
A New Survey Vessel For Fugro	33
Letters	34
Coast Guard Moves Ahead With Loran-C Expansion	35
Company Notes	35
Marine Pollution	36
Capital Report	37
Navy Currents	38
Product Development	41
People	44
International	45
Contracts	49

### OCTOBER 1974

Seed Money For The Oceans (editorial)	5
Soundings	7
Offshore Engineering	8
Marine Pollution	10
Marine Electronics	11
Capital Report	12
Navy Currents	14
Raydist Locates Position For Sinking Fish Reef Ship	15
Diving 10,000 Feet To Witness The Birth Of New Ocean Floor	16
Awards And Presentations At Tenth Annual Marine Technology Society Conference	19
Analog Computer Determines Ship Cargo Distribution	20
Company Notes	22
Ships And Structures	22
Ocean Research	24
Product Development	25
Letters	28
International	29
People	30
Contracts	33

### NOVEMBER 1974

A Committee With Clout (editorial)	7
Soundings	9
Ships And Structures	10
Marine Pollution	10
Ocean Research	15
Offshore Engineering	19
Inflation And In-House Competition Squeeze Navy ASW Programs	22
A New Wireless Underwater Communication System	28
Marine Electronics	31
Company Notes	33
Navy Currents	34
Capital Report	37
Product Development	39
Letters	42
International	43
People	45
Contracts	49

### DECEMBER 1974

Offshore Leases: A Tough Problem (editorial)	5
Soundings	7
Offshore Engineering	8
Ships And Structures	10
Marine Electronics	12
Ocean Research	12
Subsea Oil Production System Undergoing Tests In Gulf Of Mexico	13
First U.S. Ocean Mining Claim Filed By Deepsea Ventures	15
The Sea-Link Story — Creating And Marketing Reliability	16
Company Notes	18
Undersea Cable Communication Offers Improvements Over Satellites	19

"Artificial Ocean" Facility Ready To Test Pollution Control Equipment	20
Marine Pollution	21
Capitol Report	22
Navy Currents	23
Product Development	24
International	26
People	28
Sea Technology Index, Volume 15, 1974	29
Contracts	33

#### PART 2 — AUTHORS

Allen, Alan A.	1/33
Berian, Albert G.	6/21
Blackwell, Robert J.	1/38
Boode, Larry L.	1/7, 1/34, 2/7, 2/21, 3/7, 3/25, 4/7, 5/7, 5/20, 6/5, 6/16, 7/7, 7/30, 8/7, 8/23, 9/7, 9/30, 10/5, 10/16, 11/7, 11/22, 12/30
Clingon, Dr. Thomas A., Jr.	1/39
Covey, Charles W.	2/18, 3/22, 4/18, 5/25, 5/29, 9/33, 10/20, 12/16
Dorshimer, Wesley T.	9/26
Dawning, Rep. Robert	1/27
Flippe, John E.	1/33
Hodges, L. O.	8/18
Hollings, Senator Ernest	1/27
Hood, Edwin M.	1/31
Ikard, Frank N.	1/29
Jennings, Feenan D.	1/39
Jobbins, C. W.	8/18
Mulcahy, Michael	11/28
Pruitt, James G.	4/21
Schoning, Robert W.	1/35
Suelzie, L. R.	8/18
Teas, Thomas S.	9/19
Werner, Craig D.	7/24
White, Dr. Robert M.	1/28
Wolfe, H. G.	9/23

#### PART 3 — SUBJECT INDEX

AMF Sea-Link Systems	12/16
ASW report (also see Navy Currents)	11/22
African dust movement	11/43
Alvin	1/41, 11/43
analyzers, water quality	9/26
anchor, propellant-actuated	11/34
antenna, shipboard	11/31
atmospheric sensing	2/7
automated hydrographic system	2/18
bottom survey	9/33
budget, federal ocean programs	3/25
buoys	1/14, 3/17, 7/12, 7/24, 9/14

cable, synthetic fiber	6/21
cable, underwater, manufacture	7/30, 12/19
canal traffic control	4/11
cargo loading, computer	10/20
cathodic protection systems	3/39
charts	2/10
Chesapeake Bay model	2/18
chlorine detector	9/36
cleaning, hull	1/25
coastal zone management	1/28, 1/48, 1/49, 5/23
communication, satellite, maritime	8/15
antenna	11/31
communications, military satellite	1/41
communicator, diver, wireless	11/28
Compass awards	10/19
computer, cargo loading	10/20
computerized hydrographic survey	3/11, 2/18
Continental Shelf survey	11/18
crane, gantry	7/23
data, radio transmission	6/8
decompression tables	3/11
Deep Sea Drilling Project	6/13, 11/15
deepwater ports	9/30, 11/37
Delaware Coastal Zone Act	3/37
diver communication, wireless	11/28
diving	1/13, 1/41, 3/11, 5/20, 5/34, 6/9, 9/20
dredging	3/41, 7/10
drifting Arctic buoys	9/14
drilling, offshore	1/13, 1/29, 4/15, 11/18
El Niño current	9/45
electro-optics	7/23
electricity, underwater generation	1/17
energy, ocean	1/17, 1/27, 2/21, 8/7
engine starting system	3/39
environmental data buoy	7/12
environmental monitoring systems	3/22
expendable data buoy	7/24
expendable hydrophone	6/8
FAMOUS project	10/16
federal ocean programs	3/25, 4/24, 5/27, 7/7, 10/5
fish, artificial reefs	10/15
fisheries	1/35
floating nuclear plants	6/5, 6/16
GATE, project	7/18, 11/15
geophysical exploration	8/11, 9/13, 11/18
heat effect study	6/12
hydraulic model, Chesapeake Bay	6/9
hydrographic survey	2/18, 8/15
hydrophone, expendable	6/8
IEEE ocean conference	2/16, 8/25
instruments, calibration	4/7

internal ocean waves	6/14
International Decade of Ocean Exploration	1/39
international geodynamics project	9/16
international radar conference	6/8
Japanese merchant fleet	3/39
Johnson, research vessel	2/25
Kockums Shipyard	5/15, 7/23
LORAC positioning system	2/17
LORAN	4/18, 5/29, 9/35
laboratory, water quality	9/5
Law-of-the-Sea Conference	1/39, 1/43
legislation, marine programs	1/27, 1/28
marine advisory committee	9/37
marine mammal commission	2/31
marine pollution data	11/12
Marine Technology Society	7/27
maritime satellite system	8/15
Merchant Marine Fisheries Committee	2/28, 5/32, 11/7
microwave, oil detection	4/17
mining, ocean	1/33, 11/37, 12/15
Monitor	4/24, 6/15
monobuoys, offshore	6/10
NACOA (National Advisory Committee on Oceans and Atmosphere)	6/25
national ocean policy	1/27, 1/28, 1/47, 6/25
Naval Oceanographic Office	10/14
navigation systems, radio	4/18, 5/29
Navy ASW Programs (see also Navy Currents)	11/22
North Sea pipeline	11/21
nuclear plant breakwater	9/10
obstacle avoidance sonar	4/21
ocean/atmospheric data report	5/17
ocean engineering, policy	3/21
ocean, instruments market	4/24, 5/27, 10/5
offloading pump, tanker	10/22
offshore, diving	5/20
geophysical data	9/13
monobuoys	6/10
port	9/13, 9/30, 11/37
drilling	1/13, 1/29, 4/15, 11/18
Offshore Technology Conference	3/18, 9/13
Oil Pollution Control Conference	7/23
optics, underwater	11/10
point, spray, underwater	8/23
periscope manufacture	6/12
pesticide study	11/21
pipeline, North Sea	10/8
Stringray	1/33, 1/42, 1/43, 2/25, 4/17, 9/26, 10/10, 11/12, 12/20
pollution, ocean	9/13, 9/30, 11/37
ports, offshore	8/18
power amplifiers, sonar	2/10
power cable, underwater	1/17
power generation, ocean	6/8
profiling, shallow water	11/34
propellant-actuated anchor	10/16
project FAMOUS	3/17
radar, tracking	4/18, 5/29
radio navigation and location	5/25, 10/15
Raydist position location	1/41, 8/15
satellite communication	5/20
saturation diving	1/37, 1/47, 3/38, 9/37, 10/12, 10/27
Sea Grant	3/11
seismic survey, Gulf of Mexico	1/19, 9/36
sensors, remote, ocean	2/7
atmospheric	10/10
sewage treatment	9/5
shallow water survey	6/8
shallow water profiling	3/39
ship's bridge simulator	1/25
ship, hull cleaning	5/31, 6/12
shipboard waste treatment	1/31, 1/38, 5/15, 7/23
shipbuilding	7/30
Simplex, ocean cable	9/7
Smithsonian Institute	2/21
solar-to-hydrogen energy	1/20
sonar, doppler	4/15, 9/23
electronics	4/21
avoidance	8/18
power amplifiers	11/10
South African wave	3/7
Soviet-U.S. Ocean Studies	10/8
Stringray pipeline	1/25, 1/41, 2/25, 3/11, 8/15
submersibles	4/10, 12/13
subsea production systems	11/22
surveillance, ASW	2/18, 9/13, 11/18
survey, marine	2/10, 6/21
synthetic fiber cable	10/22
tanker, offloading pump	10/23
officer training	10/20
loading computer	3/11
telephone cables, undersea	1/13
television, underwater	1/17, 8/7
thermal energy, ocean	9/19
tow cable, submarine	11/22
undersea warfare (USW) (see also Navy Currents)	1/34, 11/22
U.S. Pacific Trust territories	3/37
U.S.-Soviet ocean studies	3/7
waste treatment, shipboard	5/31, 6/12
water quality instruments	9/5
wave, measurement	11/32
internal	6/14
South African	11/10
wireless diver communicator	11/28

## Ocean Equipment Rentals

### Oceanography

Current Meters (deck & in-situ recorders)  
Wave Recorders (Datawell, OAR, Bendix)  
Telemetry Buoys, Anemometer  
Bathymographs (mechanical & electronic)  
Salinometer, Fluorometer, Transmissometer  
Infrared Radiometer

### Marine Geophysics and Geology

Sub-bottom Profiling Systems  
Echo Sounders, Side Scan Sonar  
Bottom Corers, Grabs, Jet Pump

### Search and Reconnaissance

Side Scan Sonar, Underwater T-V  
Bottom Camera, Magnetometer, Sea Scanar

### Other

Electronic Positioning Systems (line-of-sight)  
Geotech Magnetic Tape Recorders  
Hydrographic Winches, Power Generators  
Hasselblad Camera, Nikonos Camera  
Trawl Net, pH Meter, Line-throwing Gun

Intersea also provides, installs and operates complete systems, including sensors, cables or telemetry, and recorders. Other services include data analysis, bottom surveys, wave and current predictions, thermal and ecological studies.



**INTERSEA RESEARCH CORPORATION**

P. O. Box 2389  
La Jolla, CA 92037  
(714) 453-5200 Cable INTERSEA San Diego

Circle No. 20 on Inquiry Card

FOR  
MORE  
INFORMATION  
ON  
PRODUCTS  
AND  
SERVICES  
ADVERTISED  
IN THIS  
ISSUE  
USE THE  
READER  
SERVICE  
REPLY  
FORM  
page 31



# LOW CONTRAST

